

## A DEVICE AGE DETERMINATION CIRCUIT

## ABSTRACT OF THE DISCLOSURE

A device age determination circuit. Circuits are located on a device,  
5 including a first circuit operating at a first duty cycle and generating a first output  
and a second circuit operating at a second duty cycle different from said first  
duty cycle and generating a second output. A measuring circuit determines a  
difference in the first output and the second output, wherein the difference  
indicates an age of the device. The age is a representation of how much  
10 degradation the device has been exposed to, and allows for dynamic  
adjustment of operating parameters of the device to optimize performance.